

Claims 1-55 have been cancelled. Therefore, Applicants submit that the rejection of claims 1, 2, 8-18, 20, 21, 27-32, 38-47, and 52-55 is moot.

Applicants further submit that new claims 56-114 are not anticipated by *Robbins* for at least the following reasons.

Claim 56 as amended recites the following:

computing a smart antenna processing strategy for a remote user, based at least in part on received signal data; and
modifying the antenna processing strategy by **incorporating signature data relating to one or more interferers** with the received signal data to reduce one or both of antenna transmit signal strength in, and sensitivity of the antenna to signals from, one or more interferers.

Thus, Applicants claim computing a processing strategy for a remote user, the strategy being modified by incorporating signature data relating to interferers. Claims 80 and 104 similarly recite incorporating signature data relating to interferers to modify the processing strategy for a remote user.

Robbins discloses a method for verifying the integrity of a smart antenna system. See, e.g., Abstract. The method described in *Robbins* includes discussion of testing the response of the antenna on co-channel interferers. See col. 10, lines 54 to 60; col. 11, line 49 to col. 12, line 60; col. 18, lines 50-55. However, *Robbins* does not disclose modifying an antenna processing strategy by incorporating interferer signature data. Therefore, *Robbins* does not anticipate the invention as claimed in claims 56, 80, and 104.

Claims 57-79 depend from claim 56. Claims 81-103 depend from claim 80. Claims 105-114 depend from claim 104. Because dependent claims necessarily include the limitations of the claims from which they depend, Applicants submit that claims 57-79, 81-103, and 105-114 are not anticipated by *Robbins* for at least the reasons set forth above.

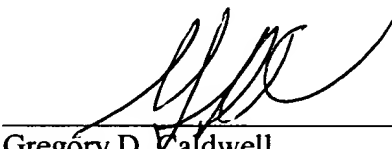
Conclusion

For at least the foregoing reasons, Applicants submit that the new claims overcome the rejections. Therefore, claims 56-114 are in condition for allowance and such action is earnestly solicited. The Examiner is respectfully requested to contact the undersigned by telephone if such contact would further the examination of the present application.

Please charge any shortages and credit any overcharges to our Deposit Account number 02-2666.

Respectfully submitted,
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Date: 7/1/02



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Date of Deposit
Mary E. Wainner

Name of Person Mailing Correspondence
Mary E. Wainner 7-3-02

Signature Date



AMENDMENTS WITH MARKINGS

IN THE SPECIFICATION

In the paragraph beginning on page 5, line 5:

One aspect of the invention is a method for determining, in a communication station using multiple antennas, improved uplink or downlink processing strategies, for example in the form of uplink or downlink weights for linear smart [mart] antenna processing, for which one or more nulls have a controlled depth. The method can be applied as a modification to a variety of known techniques for uplink and downlink strategy computation. The method needs as side information only the signatures of those remote users to which controlled nulls are to be directed. Other nulls in the array pattern, for which no signature estimates may be available, are substantially preserved. Another aspect of the invention includes estimating the required signatures. Another aspect of the invention modifies existing uplink and downlink [downing] strategy computation methods by injecting into the received signal sequence a synthetic signal whose signature equals that of the estimated remote user direction, and whose power is proportional to the desired null depth.

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